

isc Silicon PNP Power Transistor

2SB515

DESCRIPTION

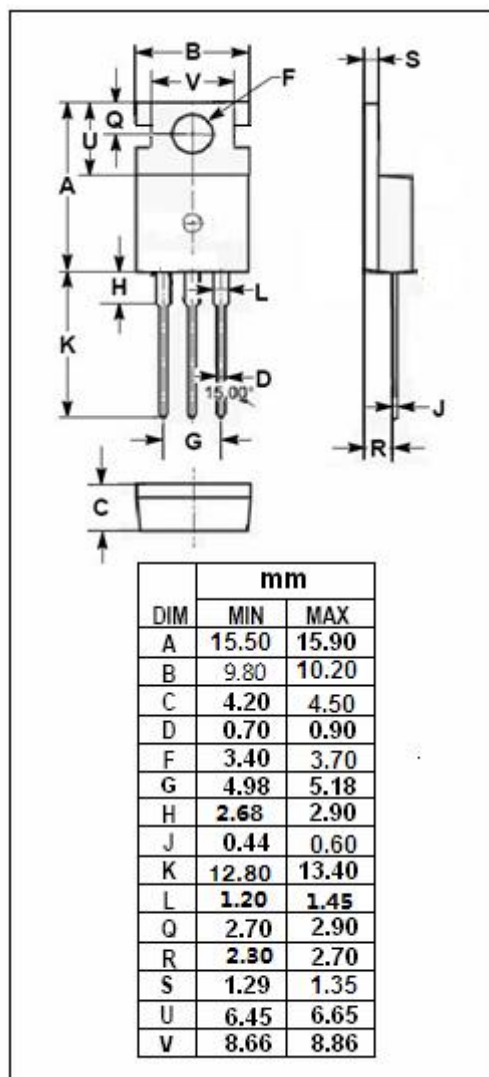
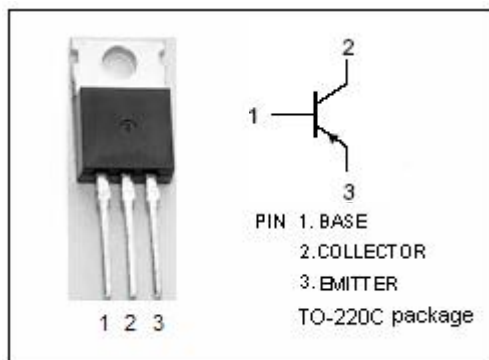
- Collector-Emitter Sustaining Voltage-
: $V_{CE(sus)} = -50V(\text{Min})$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -1.0V(\text{Max.}) @ I_C = -2A$
- Complement to Type 2SD331
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-2	A
I_{CM}	Collector Current-Peak	-5	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	1.75	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	20	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -2A$; $I_B = -0.2A$			-1.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -1A$; $V_{CE} = -5V$			-1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -50V$; $I_E = 0$			-100	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5V$; $I_C = 0$			-100	μA
h_{FE-1}	DC Current Gain	$I_C = -1A$; $V_{CE} = -2V$	40		320	
h_{FE-2}	DC Current Gain	$I_C = -0.1A$; $V_{CE} = -2V$	35			
f_T	Current-Gain—Bandwidth Product	$I_C = -0.5A$; $V_{CE} = -5V$		8		MHz

◆ h_{FE-1} Classifications

C	D	E	F
40-80	60-120	100-200	160-320

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